



Annual Program Review 2011-2012 - INSTRUCTIONAL

Division - Program **BUSINESS - CS/IS**

Authorization

After the document is complete, it must be reviewed and submitted to the Program Review Committee by the Division Chair.

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Overview of the Program

There are nine programs within the CS/IS (Computer Science/Information Systems) Department that lead to a skill award, certificate or Associates degree.. They are Computer Information Systems, Computer Operator, Computer Programmer, Computer Science, Computer Software Technician, Computer Support Technician, Desktop Publisher, Unix Administrator, and Web Developer.

All degrees and certificates are considered programs. In addition, divisions may further delineate and define programs based on their assessment needs (developmental sequences, career track, etc).

Statement of Purpose – briefly describe in 1-3 sentences.

The CS/IS department serves three primary purposes: 1) prepare students for transfer in CS, CIS or Computer Engineering; 2) prepare for entry into workplace; 3) upgrade skills of those currently working.

Please list the **most significant achievement** accomplished since your last program review.

Enrollment in specifically CS courses has increased markedly, and enrollment in all departmental offerings remains stable even in difficult times.

List the current major strengths of your program

1. Courses intended for transfer do articulate.
2. Connection to industry requirements generally has been maintained.
3. Courses offered evenings and weekends to accommodate working students.

List the current weaknesses of your program

1. Small numbers of certificates awarded.
2. Some critical courses cannot be offered.
3. Courses need review for update and some are quite outdated.

1.0. Trend Analysis

For each program within the division, use the data provided to indicate trends (e.g., steady, increasing, decreasing, etc.) for each of the following measures.

Program	Academic Year	FTES Trend	FTEF Trend	WSCH / FTEF Trend	Full-Time % Trend	Fill Rate Trend	Success Rate Trend	Awards Trend
Computer & Information Science	2007-2008	296	18.0	524	53.4%	70.0%	66.2%	1
	2008-2009	294	17.4	537	45.9%	81.1%	68.6%	6
	2009-2010	305	18.6	523	39.5%	89.2%	72.4%	1
	2010-2011	298	20.2	471	46.2%	91.0%	69.9%	6
	% Change	+0.9%	+12.4%	-10.2%	-13.5%	+29.9%	+5.6%	-
	4-Yr. Trend	stable	increasing	decreasing	decreasing	increasing	stable	increasing
Business Division TOTAL	2007-2008	1,214	78.6	491	40.8%	66.4%	71.6%	275
	2008-2009	1,218	75.1	516	38.7%	73.7%	72.4%	258
	2009-2010	1,324	77.7	542	33.1%	79.6%	72.9%	227
	2010-2011	1,430	84.3	540	33.0%	90.4%	71.6%	194
	% Change	+17.8%	+7.3%	+9.8%	-19.2%	+36.1%	+0.0%	-29.5%
	4-Yr. Trend	increasing	stable	stable	decreasing	increasing	stable	decreasing

1.1. Describe how these trends have affected student achievement and student learning:

Number of students demands variety of different offerings; the need for variety is difficult to fulfill.

1.2. Is there other relevant quantitative/qualitative information that affects the evaluation of your program?

The CS/IS department has a larger number of courses in the catalog than many divisions.

2.0. Student Learning and Curriculum

Provide the following information on each department and program within the division.

List each Department within the Division as well each degree, certificate, or other program* within the Department	Active Courses with Identified SLOs		Active Courses Assessed		Course Sections Assessed		If this area has program outcomes have they been assessed? Yes or No
	n/n	%	n/n	%	n/n	%	
Computer Science & Information Systems	50/55	90%	45/55	81.81%	40/85	47%	No

2.1. Please comment on the percentages above.

The department is recovering from a critical staff shortage. This occurred during the initial phases of the SLO process so the department has been slow in getting SLOs identified and evaluated. It has already been noted that the catalog of classes for this department is very large with most courses being run in single sections each semester. Some courses in the department are only offered once every two years.

- 2.2. a) Please provide a **link*** to all program assessment timelines here. This link could be to your division /department website, eLumen, etc.
 b) Briefly summarize any pedagogical or curricular elements of courses/programs that have been changed or will be changed as a result of developing assessment timelines and course/program alignment matrixes.
 c) Based on the program assessment timelines you have developed and the evidence you have gathered, please comment briefly on how far along your division/program is in the assessment process.

- 2.3 a) Please provide a **link** to any program and/or relevant course assessment reports. Does the evidence from assessment reports show that students are achieving the desired learning outcomes?
 b) Please briefly summarize any pedagogical or curricular elements of courses and/or programs that have been changed or will be changed as a result of the assessments conducted.

- 2.4 Please list all courses which have been reviewed in the last academic year.
Note: Curriculum Review is required by the Chancellors Office every 6 years.

In 2010-11 about 50 CS/IS courses were reviewed for SLOs – too numerous to list here.

- 2.5 Please list all degree/certificate programs within the division that were reviewed in the last academic year.

In 2010-11, none. This process was just begun in Fall, 2011.

- 2.6 For each program that was reviewed, please list any changes that were made.

N/A

3.0. Reflection and Action Plans

- 3.1 What recent activities, dialogues, discussions, etc. have occurred to promote student learning or improved program/division processes?

Department faculty have discussed:

- (1) implementing new **C-DIG** Major.
- (2) revising course offerings;
- (3) modifying both content and methods for CS/IS 101;
- (4) a review of the programming courses has revealed that the experiment to eliminate prerequisites from the programming classes was a failure. The department is in the process of reinstating prerequisites.

3.2 Using the weaknesses, trends and assessment outcomes listed on the previous pages as a basis for your comments, please briefly describe your plans and/or modifications for program/division improvements

Plans or Modifications	Anticipated Improvements
CSIS101: Increase emphasis on CS fundamentals.	Greater relevance to entire careers of students. The technology changes rapidly, the fundamentals that underlay the technology are more constant.
CSIS101: Increase use of video modules	Greater student comprehension and interest.
Increase offerings of more advanced courses.	Meeting student and industry needs.

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2011 PROGRAM REVIEW**BUSINESS-CSIS**
*Replace Computers in
Business Division Classrooms***I:BUS.CI-1****Section 4**
Resource Request

Type of Request: ☐ Facilities/Maintenance ☐ Classroom Upgrades ☐ New space
☒ Instructional Equip. ☐ Non-Instructional Equip ☐ Conference/Travel ☐ Training
☐ Computer/Hardware ☐ Software/Licenses ☐ Supplies ☐ Other

Mandatory: Is this request for one-time funding? ☐ OR Does this request require ongoing funding? ☐

If this is a repeat request, please list the Resource ID code or year requested: _____

Mark if the following apply to this request: ☐ Health & Safety Issue ☐ Legal Mandate
☐ Accreditation Requirement ☐ Contractual Requirement

4.1. Clearly describe the resource request.

The Business Division has 7 computer-equipped classrooms. All of the computers have been purchased with VTEA/Perkins funding. Each classroom computer costs about \$1,000 each. Most of the classrooms have 30 workstations and an instructor station. A plan to replace each classroom with new computers needs to be implemented. The historical life cycle for our workstations has been three years in the classroom and then three years in the lab. At the end of six years, the computers are in need of replacement and begin to cost more to maintain than to replace. The college needs to accept responsibility for the routine purchase of replacement computers by authorizing 31 computers to be replaced each semester. This will cost the college roughly \$35K per semester

Amount requested \$ 70,000 per year

4.2. Justification and Rationale: What planning goal, core competency or course/program SLO does this request address? Use data from your report to support your request.

All SLO, PLO and courses within the CSIS department rely on computer equipment to accomplish the learning objectives of the department. Equipment failures or malfunctioning software environments are catastrophic to learning objectives as all attention is diverted from course objectives to dealing with the problem.

4.3. What measurable outcome will result from filling this resource request?**APPROVALS**

AGENCY	DECISION						
The Program Review Committee has reviewed the data, outcomes and plans in the report and finds this request to be:	Well supported						
	Adequately supported						
	Not supported Returned to Division						NS
	Reason:	Sect.1: Data		Sect.2: SLOs		Sect.3: Plans	Other:
Standing Committee Review of Resource Request Committee: Academic Affairs					Prioritization Score		